

Atty's Docket No.: 56446-20003.10/ -004002/ D1120

2 on pages 18 and 19 of the specification. An exemplary assay for identifying nucleic acids by hybridization is described, inter alia, on pages 5 to 6 of the specification. Successful results, including the identification of nucleic acids that hybridize under specific conditions to SEQ ID NO:3 and encode polypeptides having alpha galactosidase activity, were predictable. Accordingly, identification of enzyme-encoding nucleic acids by hybridization under specific conditions to an exemplary nucleic acid, followed by expression of those identified nucleic acids and screening and identification of enzymatically active polypeptides, was a predictable art at the time of the invention.

3. The skilled artisan at the time of the invention would have understood the specification to describe a plurality of nucleic acid species encoding the polypeptide having a sequence as set forth in SEQ ID NO:4. It would have been a routine task for the skilled artisan at the time of the invention to determine the 6.97×10^{19} possible nucleic acid sequence combinations that can encode SEQ ID NO:4. Determining these alternative species, including, e.g., degenerate nucleic acid sequences, was routine to the skilled artisan at the time of the invention. Thus, the skilled artisan at the time of the invention would have understood that the specification described a plurality of nucleic acid species encoding SEQ ID NO:4.

4. The state of the art at the time of the invention and the level of skill of the person of ordinary skill in the art, e.g., screening enzymes, and nucleic acids encoding enzymes, for alpha galactosidase activity was very high. Using the teaching of the specification, one skilled in the art could have selected routine methods known in the art at the time of the invention to express variants of nucleic acids encoding the exemplary enzyme of the invention and screen them for expression of polypeptides having alpha galactosidase activity. Many routine, conventional alpha galactosidase activity screening assays were known in the art at the time of the invention. One skilled in the art could have used routine protocols known in the art at the time of the invention, including those described in the instant specification, to screen for nucleic acids encoding polypeptides having a percent sequence identity to SEQ ID NO:4, or active fragments thereof, for alpha galactosidase activity. It was routine to screen for multiple substitutions or multiple modifications of an enzyme-encoding sequence and predictably achieve

positive results. While the numbers of samples needed to be screened may have been high, the screening procedures were conventional and routine and successful results (i.e., finding variant nucleic acids encoding alpha galactosidase) predictable.

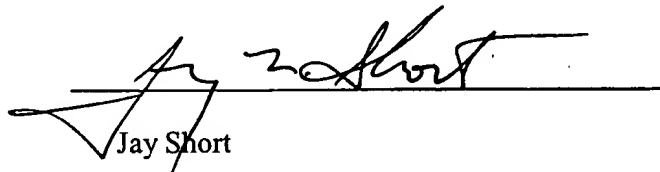
5. It would not have required any knowledge or guidance as to which are the specific structural elements, e.g., amino acid residues, that correlate with alpha galactosidase activity to create variants of the exemplary nucleic acid and test them for the expression of polypeptides or peptides having alpha galactosidase activity. Accordingly, it would not have taken undue experimentation to make and use the claimed invention, including identification of a genus of nucleic acids encoding alpha galactosidases active under various conditions.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Respectfully submitted

Date: _____

4/12/04


Jay Short

CURRICULUM VITAE

NAME: Jay M. Short, Ph.D.

EDUCATION:

1981 - 1985	Ph.D., Biochemistry Case Western Reserve University, Cleveland, Ohio
1980 - 1981	Graduate Study, Macromolecular Science Case Western Reserve University, Cleveland, Ohio
1976 - 1980	B.A. with Honors, Chemistry Taylor University, Upland, Indiana

RESEARCH & PROFESSIONAL EXPERIENCE:

<u>1999 - present</u>	CEO, President, Chief Technology Officer & Board of Directors Diversa Corporation San Diego, California
<u>1998 - present</u>	President, Chief Technology Officer & Board of Directors Diversa Corporation San Diego, California
1997 - 1998	Executive Vice President, Chief Technology Officer & Board of Directors Diversa Corporation San Diego, California
1994 - 1997	Chief Technology Officer & Board of Directors Diversa Corporation San Diego, California
<u>1990 - 1994</u>	President Stratacyte, Inc. La Jolla, California
<u>1992 - 1994</u>	Vice President R&D (Research) and Operations Stratagene Cloning Systems La Jolla, California
1989 - 1992	Vice President R&D (Research) and Biological Operations Stratagene Cloning Systems
1988 - 1989	Senior Staff Scientist Research and Development Stratagene Cloning Systems

1985 - 1988	Staff Scientist Research and Development Stratagene Cloning Systems
<u>1981 - 1985</u>	Ph.D. Research Case Western Reserve University Dr. Richard W. Hanson's Laboratory, Identification and characterization of the promoter for P-enolpyruvate carboxykinase. First identification of a cAMP regulatory domain.
1980 - 1981	Graduate Student Research Case Western Reserve University Dr. Bruce Roe's Laboratory, Analysis of the cellulase activity of <i>Trichoderma viride</i> .

TEACHING EXPERIENCE:

Thesis Advisor (1988-1993), University of Uppsala, Sweden, Ph.D. for Michelle Alting-Mees
 Lecturer (1992), Committee for Advanced Scientific Education, Center for Drug
 Evaluation and Research, FDA.
 Faculty (1989), Transgenic Mouse Model and Its Application in Assessing
In Vivo Mutagenesis, Genetic Toxicology Workshop (3rd Annual).
 Microbiological Associates Inc. Bethesda, MD.
 Faculty (1987), DNA Cloning and Expression. Physiology Society Workshop. San Diego, CA.
 Teaching Assist., (1981-1985). Molecular and Cellular Biology. Case Western
 Reserve University.
 Teaching Assist., (1981). Physiological Chemistry. Kent State Univ., Kent, OH.
 Teaching Assist., (1978-1980). Quantitative Analysis. Taylor University.

AWARDS, PROFESSIONAL MEMBERSHIPS, ACCOMPLISHMENTS, AND ACTIVITIES:

Visiting Scientist, International Centre of Insect Physiology and Ecology (ICIPE), Kenya (2002-2004)
 Science & Technology Committee, *BIOCOM San Diego*
 Advisory Board, IngleWood Ventures
 Finalists for UCSD Connect's Most Innovative New Product Award in the Biotechnology R&D Category
 Advisory Board, *Chemical & Engineering News*
 Board of Advisors and Founding Member, Division of Biological Sciences, *UCSD*
 Board Director, *BIOCOM San Diego*
 Chairman of the Board, Innovase
 Board Director, Zymetrics
 Board Director, Innovase
 Director at Large, *YPO (Young Presidents' Organization) San Diego*.
 2001 T-Sector Life Science Innovator Award.
 2001 Deloitte and Touche's Orange County / San Diego 2001 Technology "Fast 50".
 San Diego Entrepreneur of the Year 2001.
 YPO (Young Presidents' Organization) San Diego.
 YPO (Young Presidents' Organization) International.
 Finalist for San Diego Entrepreneur of the Year in 2000.
 Largest Biotechnology IPO raising over \$200MM.
 Founding management member of Diversa Corporation.
 Panel for Chemical Science & Technology for NIST, appointed by the National Research Council (1997-2000).
 Chairman (1993), Discussion Group, Society of Toxicology Conference.
 U.S. Committee Member for Evaluation of Biotechnology Research in Spain.
 Editor, Mutation Research.

UCSD Connect Program (1991) 1st Place Award for Innovation and Entrepreneurship in Biotechnology (over 50 competing biotech companies).
 UCSD Connect Program (1990) 1st Place Award for Innovation and Entrepreneurship in Biotechnology.
 Consultant for European Economic Community on Transgenic Toxicology Testing (91-94).
 The New York Academy of Sciences.
 Reviewer for *Proceedings of the National Academy of Sciences, Genetic Analysis Techniques, Analytical Biochemistry, & Nucleic Acids Research*.
 American Association for the Advancement of Science.
 American Chemical Society.
 American Society of Biochemistry and Molecular Biology.
 American Society of Microbiology.
 Environmental Mutagenesis Society.
 Society for Industrial Microbiology
 Society of Toxicology.
 Japanese Environmental Mutagen Society.
 Who's Who Registry of Business Leaders (1994-1995)
 American Men and Women of Science (1995)
 NIEHS Peer Review Committee.
 SBIR Study Section.
 SBIR Annual Report (1993) Program Success Profile (Top 8 of 800 Companies).
 Stratagene (1990) Innovation Award - Lambda ZAP[®] vector.
 Stratagene (1990) Service Award
 Stratagene (1991) Innovation Award - Big Blue[®] Transgenic Testing System.
 Stratagene (1992) Most Innovative Award - Managers/Supervisors.
 Institutional Animal Care and Use Committee (IACUC), Chairman and Institutional Official.
 Award from the University of Victoria for Contributions to the Development of Short-term Transgenic Mutation Assays.
 Nominated as Council Member for the U.S. Environmental Mutagen Society.
 Board Director, *Stressgen (TSE), Victoria, BC, Canada*
 Board Director & Treasurer, *Stressgen Therapeutics, Victoria, BC, Canada*
 Board Director & Secretary, *Stressgen Therapeutics, Victoria, BC, Canada*
 Board Director, *Diversa, La Jolla, CA*
 Board Director, *Invitrogen, Carlsbad, CA*
 Consultant, *Stratagene Cloning Systems, La Jolla, CA*
 Consultant, *Micro Product Systems, Lynn, IN*
 Reviewer for U.S. Congressional Office of Technology Assessment (OTA) on *The Human Genome Project and Patenting DNA Sequences*.

MEDIA:

ABC Discovery News, ABC San Diego Channel 10, BBC Radio, Bioinformed Newsletter, Biotechnology Newsletter, BioVentures View, Business Daily, Business Week, CEO Cast, Chemical Engineering, Chemical Week, Chemistry & Industry (UK), CNBC, CNN Science & Technology, dBusiness.com, Discovery Magazine, Forbes.com, Good Morning America, Horizon Air Magazine, Idea TV, Inside Business Radio Show, JAG Financial News, Los Angeles Times, NBC San Diego Channel 7/39, National Radio Report, New York Times, Pirateinvestor.com, R&D Magazine, RTL German Television, Reuters, San Diego Business Transcript, San Diego Channel KUSI, San Diego Channel 10, San Diego Magazine, San Diego Union Tribune, Scientist, Time Magazine, The Discovery Channel, The Motley Fool, Time Magazine, USA Today, Wall Street Journal, Wall Street Transcript, Washington Post

PATENTS:

DNA Cloning Vectors with *in vivo* Excisable Plasmids (1987).
 Mutagenesis Testing Using Transgenic Animals Carrying Marker Genes (1987).
 Mutagenesis Testing Using Transgenic Non-Human Animals Carrying Test

DNA Sequences (1987).
 Dietary and Hormonal Regulation of Expression of Exogenous Genes in Transgenic Animals Under Control of the Promoter of the Gene Phosphoenolpyruvate Carboxykinase (1988).
 A Transgenic Mouse for Measurement and Characterization of Mutation Induction *In Vivo* (1989).
 Rapid Screening Mutagenesis and Teratogenesis Assay (1989).
 A Combinatorial Approach to Regenerating the Immunoglobulin Repertoire in Prokaryotic Cells (1990).
 Transgenic Animal Models for *In Vivo* Mutagenesis Testing (1990).
 Polycos Vectors (1991).
 A Lambda Packaging Extract Lacking β -Galactosidase Activity (1991).
 A System for Regulation of Eukaryotic Genes (1991).
 Methods for Phenotype Creation from Multiple Gene Populations (1991).
 Transgenic Non-Human Animals Carrying Test DNA Sequences (1992).
 Mutagenesis Testing Using Transgenic Non-Human Animals Carrying Test DNA Sequences (1992).
 Selectable System Patent (1992).
 Polycos Mutagenesis Systems (1993).
 Use of Trans-acting Proteins for the Development of an *In Situ* Expression Screening System (1993).
 Enzyme Kits and Libraries (1995).
 Enzyme Activity Screening of Clones having DNA from Uncultivated Microorganisms (1995).
 Enzyme Tiered (1995).
 Method for Screening for Enzyme Activity (1995).
 Combined Enzyme Screening/Evolution (1995).
 Uncultured/Activity Screening (1995).
 Directed Evolution of Thermophilic Proteins (1995).
 Combinatorial Enzyme Development (Directed Mutagenesis) (1996).
 Protein Activity Screening of Clones having DNA from Uncultivated Microorganisms (1996).
 Production and Use of Normalized DNA Libraries (1996).
 Methods of DNA Shuffling with Polynucleotides Produced by Blocking or Interrupting a Synthesis or Amplification Process (1996).
 Method of Screening for Enzyme Activity (Biopanning) (1996).
 Directed Evolution of Thermophilic Enzymes (1996).
 Environmental Biopanning (1996).
 Combinatorial Enzyme Development (1996).
 Enzyme Activity Screening of Clones Having DNA from Uncultivated Microorganisms (1996).
 Normalized Samples/Libraries (1996).
 Reassembled Pools of Mutagenized DNA & Procedure (1996).
 Fluorescent-based Single Screening for Enzymes (1996).
 High Throughput Screening for Novel Enzymes (1997).
 Nucleotide Sequence of the *Aquifex aeolicus* Genome, Fragments Thereof, and Uses Thereof (1997).
 Screening for Novel Bioactivities (1997).
 Screening for Novel Compounds which Regulate Biological Interactions (1997).
 Method for Screening Enzyme Activity (1997).
 High Throughput Screening for Novel Enzymes (1997).
 "Discovery" (whole process, including uncultivated, normalized, biopanning, screening, evolving, (etc.)) (1997).
 Production of Enzymes Having Desired Activities By Mutagenesis (1999).
 Protein Activity Screening of Clones Having DNA from Uncultivated Microorganisms (1999).
 Method of DNA Reassembly by Interrupting Sythesis (1999).
 Production and Use of Normalized DNA Libraries (1999).
 Enzyme Kits and Libraries (1999).
 Screening for Novel Bioactivities (2000).
 Method for Screening for Enzyme Activity (2000).
 Screening for Novel Bioactivities (2000).
 Production and Use of Normalized DNA Libraries (2000).
 Method of Screening for Enzyme Activity (2000).
 Screening Methods for Enzymes and Enzyme Kits (2001).
 Saturation Mutagenesis in Directed Evolution (2001).
 High Throughput Screening for Novel Enzymes (2001).

Recombinant Bacterial Phytases and Uses Thereof (2001).
 Methods Useful for Nucleic Acid Sequencing Using Modified Nucleotides Comprising Phenylboronic Acid (2001).
 End Selection in Directed Evolution (2001)
 Gene Expression Library Produced From DNA From Uncultivated Microorganisms and Method for Making the Same (2001)
 Directed Evolution of Thermophilic Enzymes (2002)
 Method for Screening for Enzyme Activity (2002)
 Exonuclease-Mediated Gene Assembly in Directed Evolution (2002)
 End Selection In Directed Evolution (2002)
 Exonuclease-Mediated Gene Assembly in Directed Evolution (2002)
 Screening for Novel Bioactivities(2002)
 Method of DNA Shuffling with Polynucleotides Produced or Blocking or Interrupting Synthesis or Amplification Process (2002)
 Production and Use of Normalized DNA Libraries (2002)
 Sequence Based Screening (2002)
 Non-Stochastic Generation of Genetic Vaccines (2002)
 Over 100 Additional Pending Patent Applications Worldwide.

GRANTS AND CONTRACTS:

- *Phase I Small Business Contract #N43-Am-62282. 1985 - 1986. P.I.
Vectors and Techniques for Rapid DNA Sequencing.
- *Phase II Small Business Contract #N43-Am-62282. 1988 - 1990. P.I.
Vectors and Techniques for Rapid DNA Sequencing.
- *Phase I Small Business Grant 2R43ES04484-02. 1986 - 1987. P.I.
Identification of Genetic Lesions Leading to Mutations.
- *Phase II Small Business Grant 2R43ES04484-02. 1989 - 1992. P.I.
Identification of Genetic Lesions Leading to Mutations.
- *1R01-ES04728-01A1. 1989 - 1992. (NIEHS) P.I.
Animal Model for Identification of Genetic Lesions.
- *Phase I Small Business Grant #R43GM42291-01. 1989. P.I.
Switch Mechanism for Gene Expression in Transgenics.
- *RFP NIH-ES-88-11. 1989-1994. (NIEHS) Co-I.
Development of Mutagenesis Assays Using Transgenic Mice.
- *Phase II Small Business Grant #2R44GM42291-02. 1990-1992. (DRG/NIH) P.I.
Switch Mechanism for Gene Expression in Transgenics.
- *Phase I Small Business Grant #1R43GM46585-01. 1991. (DRG/NIH) P.I.
Generation of a Peptide Screening System Through the Development of
Combinatorial-splicing "Polycos" Vectors.
- *Phase I Small Business Grant #1R43CA57066-01. 1992. (NCI) P.I.
Transgenic Rats: A Short-term Mutagenicity Assay for Multi-species Testing of Suspected Human Carcinogens.
- *Phase I Small Business Grant #1R43GM48300-01. 1992. (DRG/NIH) P.I.
Analysis of the Immunoglobulin Hypermutator Mechanism.
- *Phase I Small Business Grant #1R43ES06146-01. 1992. (NIEHS) P.I.
Selectable "Polycos" Shuttle Vectors for In Vivo Mutagenicity Testing.
- *Phase II Small Business Grant #2R44GM46585-02. 1992-1994. (NIGMS) P.I.
Peptide Screening Utilizing Combinatorial Polycos Vector.
- *Phase I Small Business Grant #1R43RR08667-01. 1992-1993. (DRG/NIH) Co-I.
A One-step PCR Cloning System Based on FLP Recombination.
- *Phase II Small Business Grant #2R44CA57066-02. 1993-1995. (NCI) P.I.
Transgenic Rats: Transgenic Rat Model for Mutagenicity Testing.
- *Phase I Small Business Grant. 1993-1994. (NIH) Co-I.
Transgenic Fish Model for Mutagenicity Testing.
- *Phase II Small Business Grant (1994-1996). (NIH) P.I.
"Polycos" Shuttle Vectors for Mutagenicity testing.
- *Phase I Small Business Grant. 1994. (NIH) Co-I.
Vector System for Studying Protein-Protein Interactions.

- *CRADA with LLNL. 1994. (NIH) Co-I.
Mouse and Rat Painting Probes.
- *CRADA with FDA. 1994. (NIH) Co-I.
Tamoxifen Testing in F-344 Rats.
- *CRADA with NASA. 1994. (NIH) Co-I.
Radiation Damage in the Microgravity Environment.

ABSTRACTS AND INVITED LECTURES:

Over 200 Abstracts and Invited Lectures.

PUBLICATIONS:

1. Yoo-Warren, H., Monahan, J.E., Short, J.M., Short, H., Bruzel, A., Wynshaw-Boris, A., Meisner, H.M., Samols, D., and Hanson, R.W. (1983) Isolation and Characterization of the Gene Coding for Cytosolic Phosphoenolpyruvate Carboxykinase (GTP) from the Rat. *Proc. Natl. Acad. Sci. U.S.A.*, 80:3656-3660.
2. Wynshaw-Boris, A., Lugo, T.G., Short, J.M., Fournier, R.E.K., and Hanson, R.W. (1984) Identification of cAMP Regulatory Region in the Gene for Rat Cytosolic Phosphoenolpyruvate Carboxykinase (GTP): Use of Chimeric Genes Transfected into Hepatoma Cells. *J. Biol. Chem.*, 259:12161-12169.
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10. Bullock, W., Fernandez, J.M., and Short, J.M. (1987) XL1-Blue: A High Efficiency Plasmid Transforming *recA E.coli* Strain With β -Galactosidase Selection. *Biotechniques*, 5:60-64.
11. Short, J.M., Fernandez, J.F., Sorge, J.A., and Huse, W. (1988) Lambda ZAP[®]: A Bacteriophage Lambda Expression Vector With *In Vivo* Excision Properties. *Nucleic Acids Res.*, 16:7583-7600.

12. Short, J.M. (1988) Book Review: Vectors - A Survey of Molecular Cloning Vectors and Their Uses. Raymond L. Rodriques and David T. Denhardt, eds, Butterworths, Stoneham, MA. *Genomics*, 2:270-271.
13. Short, J.M., and Pollard, A. (1988) Gigapack XL: Size Selective Packaging Extract. *Strategies in Mol. Biol.*, 1:5-7.
14. Kretz, P.L., and Short, J.M. (1989) Gigapack II: A Restriction Deficient (*mcrA*-, *B*-, *hsd*-, *mrr*-) Lambda Packaging Extract. *Strategies in Mol. Biol.*, 2(2):25-26.
15. Kretz, P.L., Reid, C.H., Greener, A., and Short, J.M. (1989) Effect of Lambda Packaging Extract *Mcr* Restriction Activity on DNA Cloning. *Nucleic Acids Res.* 17:5409.
16. Sastry, L., Alting-Mees, M., Huse, W.D., Short, J.M., Sorge, J.A., Hay, B.N., Janda, K.D., Benkovic, S.J., and Lerner, R.A. (1989) Cloning of the Immunological Repertoire in *E. coli* for Generation of Monoclonal Catalytic Antibodies I. Construction of a V_H Specific cDNA Library. *Proc. Natl. Acad. Sci. U.S.A.*, 86:5728-5732.
17. Short, J.M. (1989) The Use of Lambda Phage Shuttle Vectors in Transgenic Mice for Development of a Short Term Mutagenicity Assay. In: *Fifth International Conference on Environmental Mutagens*, Alan Liss, Inc., New York, Part A:335-367. Article and Lecture.
18. Alting-Mees, M., and Short, J.M. (1989) pBluescript II: Gene Mapping Vectors. *Nucleic Acids Res.*, 17:9494.
19. Shopes, B., Alting-Mees, M., Amber, J.R., Ardourel, D., Callahan, M., Detrick, J., Hay, B.N., Hogrefe, H.H., Greener, A., Gross, E.A., Kubitz, M.M., Mullinax, R.L., Wilson, C., Short, J.M., and Sorge, J.A. (1990) Bacteriophage Immuno-expression Libraries: An Emerging Technology for the Identification and Production of Monoclonal Antibodies. *Antibody Engineering, New Tech. & Application Implications*. pp. 98-101.
20. Alting-Mees, M., Amberg, J., Ardourel, D., Elgin, E., Greener, A., Gross, E.A., Kubitz, M., Mullinax, R.L., Short, J.M., and Sorge, J.A. (1990) Monoclonal Antibody Expression Libraries: A Rapid Alternative to Hybridomas. *Strategies in Mol. Biol.*, 3:1-9.
21. Kohler, S., Provost, S., Dyaico, M., Sorge, J., and Short, J.M. (1990) Development of a Short-term, *In Vivo* Mutagenesis Assay: The Effects of Methylation on the Recovery of a Lambda Phage Shuttle Vector from Transgenic Mice. *Nucleic Acids Res.*, 18:3007-3013.
22. Kohler, S., Provost, G.S., Kretz, P.L., Fieck, A., and Short, J.M. (1990) An *In Vivo* Assay Using Transgenic Mice to Analyze Spontaneous and Induced Mutations at the Nucleic Acid Level. *Strategies in Mol. Biol.*, 3:19-21.
23. Kretz, P., Kohler, S., and Short, J.M. (1990) The Effect of *E. coli* Minute 98 Locus on DNA Containing Eukaryotic Modifications. *Strategies in Mol. Biol.*, 3:21-22.
24. Mullinax, R.L., Gross, E.A., Amberg, J., Hogrefe, H., Kubitz, M., Greener, A., Alting-Mees, M., Ardourel, D., Hay, B.N., Short, J.M., Sorge, J.A., and Shopes, B. (1990) Identification of Human Antibody Fragment Clones Specific for Tetanus Toxin in a Bacteriophage Lambda Immuno-Expression Library. *Proc. Natl. Acad. Sci. U.S.A.*, 87:8095-8099.
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26. Mullinax, R.L., Gross, E.A., Amber, J.R., Hay, B.N., Hogrefe, H.H., Kubitz, M.M., Greener, A., Alting-Mees, M., Ardourel, D., Short, J.M., Sorge, J.A., and Shopes, B. (1990) Human Antibody Clones Isolated From a Bacteriophage Lambda Immunoexpression Library. *Strategies in Mol. Biol.*, 4(4):51-52.
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28. Kohler, S.W., Provost, G.S., Kretz, P.L., Fieck, A., Sorge, J.A., and Short, J.M. (1990) The Use of Transgenic Mice for Short Term, *In Vivo* Mutagenicity Testing. *Genetic Analysis Techniques*, 7(8):212-218.
29. Shopes, B., Mullinax, R.L., Amber, J.R., Gross, E.A., Hay, B.N., Hogrefe, H.H., Kubitz, M.M., Greener, A., Alting-Mees, M., Ardourel, D., Short, J.M., and Sorge, J.A. (1990) ImmunoZAP[®] Bacteriophage Libraries: A New Technology for the Identification and Expression of Monoclonal Antibodies. *Biotech USA Conference Proceedings*, pp.332-341.
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